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b34r5hell

Introduction

Agenda

- > Welcome
- > What is a CTF
- > What is Bearshell
- > Bootcamp
- > CTF Examples



Who are we?

Matt

Will

Who Are You?

?...?

What is a CTF?

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Capture the Flag (CTF) is a hacking competition in which players
compete to obtain "flags" by solving security based problems.
Players can compete individually or as a team.
All skill levels are welcome.
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[video](#)

Not just about hacking

Problem solving

Changes the way you build software

Job Recruitment

Cutting edge research ([Cyber Grand Challenge](#))



What is Bearshell?

- > We are a cybersecurity club that focuses on developing our security skills and knowledge through CTF competitions
- > We host weekly meetings to discuss new topics and tools
- > We compete in competitions once a month

Weekly Meetings (Friday, time 4-5 pm)

- > Learn about different CTF and security topics
- > Go over a few cool challenges
- > Bring questions!!

Competition Weeks

- > Competitions are normally 24-72 hour time periods over the weekend
- > Work together in-person and continue communication through Slack
- > Make write-ups and review challenges after the competition

Special Events

- > Alumni visits



Bootcamp

- > A sequence of introductory meetings to give new members the base knowledge needed to succeed in CTFs
- > CTFs have a steep learning curve
- > We want to provide guidance on how to get started so that everyone can participate and enjoy CTFs
- > Bootcamp meetings will be informative and interactive



Bootcamp

- > We will cover the following topics:
 - > Linux CLI and Python Scripting
 - > Web Security and Cryptography
 - > Steganography and Forensics
 - > Reverse Engineering and Binary Exploitation (pwn)
- > Each topic will have an in-person meeting and challenges/tasks to complete after each one
 - > **Time commitment:** 3-4 hours a week (counting the 1.5 hour meetings each week) for 4 weeks
 - > Starts Monday
- > **Bring a computer to meetings**



Schedule

Bootcamp Schedule: (Subject to change)			
Date	Time	Location	Topic
Thursday - 1/25/24	5:30 - 6:30 PM	Seigle 208	Information Meeting - What is a CTF?
Monday - 1/29/24	5:30 - 7 PM	Jubel 121	Linux Environment and CLI, Shell, Python Scripting
Monday - 2/5/24	5:30 - 7 PM	Jubel 121	Web Security and Cryptography
Monday - 2/12/24	5:30 - 7 PM	Jubel 121	Steganography and Forensics
Monday - 2/19/24	5:30 - 7 PM	Jubel 121	Reverse Engineering and Pwn



Join the Slack



Examples

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Vault door [1-8]

Stonks

Hack On!